

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H04H3/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H04H H04B H04Q

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 689 808 A (SANDAHN ET AL) 18 November 1997 (1997-11-18)	1
A	the whole document	2, 11, 12
X	US 4 188 582 A (CANNALTE, GARY A ET AL) 12 February 1980 (1980-02-12)	1
A	the whole document	11, 12
A	DE 43 30 054 A1 (MOTOROLA, INC., SCHAUMBURG, ILL., US) 7 April 1994 (1994-04-07) column 6, line 64 - column 7, line 10	1, 11, 12
A	EP 1 063 799 A (SWISSCOM AG) 27 December 2000 (2000-12-27) cited in the application the whole document	1, 11-13
	-/-	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

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- *E* earlier document but published on or after the international filing date
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- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *Z* document member of the same patent family

Date of the actual completion of the international search

21 April 2005

Date of mailing of the international search report

28/04/2005

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	DE 199 37 457 A1 (ROBERT BOSCH GMBH) 6 December 2001 (2001-12-06) cited in the application the whole document -----	1,11,12
A	DE 43 41 211 C1 (GRUNDIG E.M.V. ELEKTRO-MECHANISCHE VERSUCHSANSTALT MAX GRUNDIG HOLLAEN) 20 April 1995 (1995-04-20) cited in the application the whole document -----	1,11,12

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP2004/011869

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
US 5689808	A	18-11-1997	NONE		
<hr/>					
US 4188582	A	12-02-1980	CA	1113545 A1	01-12-1981
			DE	2962016 D1	11-03-1982
			EP	0004702 A1	17-10-1979
			JP	54137909 A	26-10-1979
<hr/>					
DE 4330054	A1	07-04-1994	GB	2271248 A , B	06-04-1994
			US	5423058 A	06-06-1995
<hr/>					
EP 1063799	A	27-12-2000	EP	1063799 A1	27-12-2000
			AT	247348 T	15-08-2003
			DE	59906593 D1	18-09-2003
<hr/>					
DE 19937457	A1	06-12-2001	EP	1076427 A2	14-02-2001
<hr/>					
DE 4341211	C1	20-04-1995	AT	213885 T	15-03-2002
			DE	59410061 D1	04-04-2002
			EP	0656702 A1	07-06-1995
			PT	656702 T	31-07-2002
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